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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,358	06/30/2003	Santeri Paavolainen	540-017-003	2664

4955 7590 04/03/2007
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EXAMINER

HARPER, KEVIN C

ART UNIT	PAPER NUMBER
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2616

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/611,358

Applicant(s)

PAAVOLAINEN, SANTERI

Examiner

Kevin Harper

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 5-21 is/are rejected.
- 7) ☒ Claim(s) 4 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 7/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, 5-11 and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Wiget et al. (US 2004/0030804).

1. Regarding claims 1, 6, 9-10, and 13, Wiget discloses a method for handling a broadcast packet in a gateway computer (fig. 1a; fig. 4; para. 5) that has an IPsec connection (fig. 2) to logical network segment (note: VPN) where broadcast packets are distributed (para. 51). IPsec inherently specifies what kinds of packets are acceptable for transmission over an IPsec connection (para. 49-50). The method comprising encapsulating the broadcast packet into an acceptable form (para. 51; fig. 2), and transmitting the packet to the logical network segment through the connection (para. 51).
2. Regarding claims 3 and 8, a CPE device provides for a group of end stations (para. 22; para. 36) and receives a copy of the broadcast packet for the end stations (para. 44).
3. Regarding claims 5 and 7, headers are added to the packet (fig. 2).
4. Regarding claim 11, the gateway computer (fig. 1a, CPE) includes interfaces to the VPN (through IP backbone) and individual hosts (ESxx). The CPE inherently includes a broadcast packet handler for forwarding broadcast packets.

5. Regarding claim 14, these limitations have been addressed in the rejection of claims 10-11 above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 12 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiget et al. (US 2004/0030804) in view of McTernan et al. (US 2001/0034788).

6. Regarding claims 2, 12 and 15, Wiget does not disclose duplicating broadcast packets. However, McTernan discloses duplicating packets (para. 41) to be sent to multiple destinations. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to duplicate an appropriate number broadcast packets in the invention of Wiget in order to provide multiple copies of the packet to subscribing users (McTernan, para. 41).

Claims 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiget et al. (US 2004/0030804).

7. Regarding claims 16-21, Wiget discloses a system and method for broadcasting and encapsulating IPsec packets. However Wiget does not disclose a computer-readable medium containing computer instructions. One skilled in the art would recognize that a communications device is provided with computer instructions or software for executing a function. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a

Art Unit: 2616

computer program stored in computer readable medium for implementing a communication function in the invention of Wiget in order to flexibly implement the functions.

Allowable Subject Matter

8. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild, can be reached at 571-272-2092. The centralized fax number for the Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax number is 571-273-3166 and the examiner's e-mail address is kevin.harper@uspto.gov.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications associated with a customer number is available through Private PAIR only. For more information about the PAIR system, see portal.uspto.gov. Should you have questions on

Application/Control Number: 10/611,358

Page 5

Art Unit: 2616

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'K. C. Harper', with a stylized flourish at the end.

Kevin C. Harper

April 1, 2007